

SEQUENCE LISTING

<110> Le, Junming
Vilcek, Jan
Daddona, Peter
Ghrayeb, John
Knight, David
Siegel, Scott

<120> Anti-TNF Antibodies and Peptides of
Human Tumor Necrosis Factor

<130> 0975.1005-038

<140>

<141>

<150> US 09/756,301

<151> 2001-01-08

<150> U.S. 09/133,119

<151> 1998-08-12

<150> U.S. 08/570,674

<151> 1995-12-11

<150> U.S. 08/324,799

<151> 1994-10-18

<150> U.S. 08/192,102

<151> 1994-02-04

<150> U.S. 08/192,861

<151> 1994-02-04

<150> U.S. 08/192,093

<151> 1994-02-04

<150> U.S. 08/010,406

<151> 1993-01-29

<150> U.S. 08/013,413

<151> 1993-02-02

<150> U.S. 07/943,852

<151> 1992-09-11

<150> U.S. 07/853,606

<151> 1992-03-18

<150> U.S. 07/670,827

<151> 1991-03-18

<160> 30

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 157

<212> PRT

<213> Homo sapiens

<400> 1

```

Val Arg Ser Ser Ser Arg Thr Pro Ser Asp Lys Pro Val Ala His Val
 1           5           10           15
Val Ala Asn Pro Gln Ala Glu Gly Gln Leu Gln Trp Leu Asn Arg Arg
          20           25           30
Ala Asn Ala Leu Leu Ala Asn Gly Val Glu Leu Arg Asp Asn Gln Leu
      35           40           45
Val Val Pro Ser Glu Gly Leu Tyr Leu Ile Tyr Ser Gln Val Leu Phe
 50           55           60
Lys Gly Gln Gly Cys Pro Ser Thr His Val Leu Leu Thr His Thr Ile
65           70           75           80
Ser Arg Ile Ala Val Ser Tyr Gln Thr Lys Val Asn Leu Leu Ser Ala
          85           90           95
Ile Lys Ser Pro Cys Gln Arg Glu Thr Pro Glu Gly Ala Glu Ala Lys
          100          105          110
Pro Trp Tyr Glu Pro Ile Tyr Leu Gly Gly Val Phe Gln Leu Glu Lys
      115          120          125
Gly Asp Arg Leu Ser Ala Glu Ile Asn Arg Pro Asp Tyr Leu Asp Phe
      130          135          140
Ala Glu Ser Gly Gln Val Tyr Phe Gly Ile Ile Ala Leu
145          150          155

```

<210> 2

<211> 321

<212> DNA

<213> Mus Balb/c

<220>

<221> CDS

<222> (1)...(321)

<400> 2

```

gac atc ttg ctg act cag tct cca gcc atc ctg tct gtg agt cca gga      48
Asp Ile Leu Leu Thr Gln Ser Pro Ala Ile Leu Ser Val Ser Pro Gly
 1           5           10           15

gaa aga gtc agt ttc tcc tgc agg gcc agt cag ttc gtt ggc tca agc      96
Glu Arg Val Ser Phe Ser Cys Arg Ala Ser Gln Phe Val Gly Ser Ser
          20           25           30

atc cac tgg tat cag caa aga aca aat ggt tct cca agg ctt ctc ata      144
Ile His Trp Tyr Gln Gln Arg Thr Asn Gly Ser Pro Arg Leu Leu Ile
          35           40           45

aag tat gct tct gag tct atg tct ggg atc cct tcc agg ttt agt ggc      192
Lys Tyr Ala Ser Glu Ser Met Ser Gly Ile Pro Ser Arg Phe Ser Gly
          50           55           60

agt gga tca ggg aca gat ttt act ctt agc atc aac act gtg gag tct      240

```

3/9

Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Ser	Ile	Asn	Thr	Val	Glu	Ser	
65					70					75					80	
gaa	gat	att	gca	gat	tat	tac	tgt	caa	caa	agt	cat	agc	tgg	cca	ttc	288
Glu	Asp	Ile	Ala	Asp	Tyr	Tyr	Cys	Gln	Gln	Ser	His	Ser	Trp	Pro	Phe	
				85				90						95		
acg	ttc	ggc	tcg	ggg	aca	aat	ttg	gaa	gta	aaa						321
Thr	Phe	Gly	Ser	Gly	Thr	Asn	Leu	Glu	Val	Lys						
			100					105								

<210> 3
 <211> 107
 <212> PRT
 <213> Mus Balb/c

Asp	Ile	Leu	Leu	Thr	Gln	Ser	Pro	Ala	Ile	Leu	Ser	Val	Ser	Pro	Gly	
1				5					10					15		
Glu	Arg	Val	Ser	Phe	Ser	Cys	Arg	Ala	Ser	Gln	Phe	Val	Gly	Ser	Ser	
			20					25					30			
Ile	His	Trp	Tyr	Gln	Gln	Arg	Thr	Asn	Gly	Ser	Pro	Arg	Leu	Leu	Ile	
		35				40					45					
Lys	Tyr	Ala	Ser	Glu	Ser	Met	Ser	Gly	Ile	Pro	Ser	Arg	Phe	Ser	Gly	
	50					55				60						
Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Ser	Ile	Asn	Thr	Val	Glu	Ser	
65					70					75					80	
Glu	Asp	Ile	Ala	Asp	Tyr	Tyr	Cys	Gln	Gln	Ser	His	Ser	Trp	Pro	Phe	
				85				90						95		
Thr	Phe	Gly	Ser	Gly	Thr	Asn	Leu	Glu	Val	Lys						
			100					105								

<210> 4
 <211> 357
 <212> DNA
 <213> Mus Balb/c

<220>
 <221> CDS
 <222> (1)...(357)

gaa	gtg	aag	ctt	gag	gag	tct	gga	gga	ggc	ttg	gtg	caa	cct	gga	gga	48
Glu	Val	Lys	Leu	Glu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	
1				5				10						15		
tcc	atg	aaa	ctc	tcc	tgt	gtt	gcc	tct	gga	ttc	att	ttc	agt	aac	cac	96
Ser	Met	Lys	Leu	Ser	Cys	Val	Ala	Ser	Gly	Phe	Ile	Phe	Ser	Asn	His	
			20					25					30			
tgg	atg	aac	tgg	gtc	cgc	cag	tct	cca	gag	aag	ggg	ctt	gag	tgg	gtt	144
Trp	Met	Asn	Trp	Val	Arg	Gln	Ser	Pro	Glu	Lys	Gly	Leu	Glu	Trp	Val	
		35				40					45					
gct	gaa	att	aga	tca	aaa	tct	att	aat	tct	gca	aca	cat	tat	gcg	gag	192

4/9

Ala	Glu	Ile	Arg	Ser	Lys	Ser	Ile	Asn	Ser	Ala	Thr	His	Tyr	Ala	Glu		
50						55					60						
tct	gtg	aaa	ggg	agg	ttc	acc	atc	tca	aga	gat	gat	tcc	aaa	agt	gct	240	
Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asp	Ser	Lys	Ser	Ala		
65					70					75					80		
gtc	tac	ctg	caa	atg	acc	gac	tta	aga	act	gaa	gac	act	ggc	gtt	tat	288	
Val	Tyr	Leu	Gln	Met	Thr	Asp	Leu	Arg	Thr	Glu	Asp	Thr	Gly	Val	Tyr		
				85					90					95			
tac	tgt	tcc	agg	aat	tac	tac	ggc	agt	acc	tac	gac	tac	tgg	ggc	caa	336	
Tyr	Cys	Ser	Arg	Asn	Tyr	Tyr	Gly	Ser	Thr	Tyr	Asp	Tyr	Trp	Gly	Gln		
			100					105					110				
ggc	acc	act	ctc	aca	gtc	tcc										357	
Gly	Thr	Thr	Leu	Thr	Val	Ser											
			115														

<210> 5

<211> 119

<212> PRT

<213> Mus Balb/c

<400> 5

Glu	Val	Lys	Leu	Glu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly		
1				5				10						15			
Ser	Met	Lys	Leu	Ser	Cys	Val	Ala	Ser	Gly	Phe	Ile	Phe	Ser	Asn	His		
			20					25					30				
Trp	Met	Asn	Trp	Val	Arg	Gln	Ser	Pro	Glu	Lys	Gly	Leu	Glu	Trp	Val		
		35				40						45					
Ala	Glu	Ile	Arg	Ser	Lys	Ser	Ile	Asn	Ser	Ala	Thr	His	Tyr	Ala	Glu		
50					55					60							
Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asp	Ser	Lys	Ser	Ala		
65					70					75					80		
Val	Tyr	Leu	Gln	Met	Thr	Asp	Leu	Arg	Thr	Glu	Asp	Thr	Gly	Val	Tyr		
				85					90					95			
Tyr	Cys	Ser	Arg	Asn	Tyr	Tyr	Gly	Ser	Thr	Tyr	Asp	Tyr	Trp	Gly	Gln		
			100					105					110				
Gly	Thr	Thr	Leu	Thr	Val	Ser											
			115														

<210> 6

<211> 8

<212> PRT

<213> Homo sapiens

<400> 6

Gly	Thr	Leu	Val	Thr	Val	Ser	Ser										
1					5												

<210> 7

<211> 7

<212> PRT

<213> Homo sapiens

<400> 7

Gly Thr Lys Leu Glu Ile Lys
1 5

<210> 8

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR oligonucleotides

<400> 8

cctggatacc tgtgaaaaga

20

<210> 9

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR oligonucleotides

<400> 9

cctggtacct tagtcaccgt ctcctca

27

<210> 10

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR oligonucleotides

<400> 10

aatagatatc tccttcaaca cctgcaa

27

<210> 11

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR oligonucleotides

<400> 11

atcgggacaa agttggaaat a

21

<210> 12

<211> 16

<212> DNA
<213> Artificial Sequence

<220>
<223> PCR oligonucleotides

<400> 12
ggcgggtctgg taccgg 16

<210> 13
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR oligonucleotides

<400> 13
gtcaacaaca tagtcatca 19

<210> 14
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR oligonucleotides

<400> 14
cacaggtgtg tccccaagga aaa 23

<210> 15
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR oligonucleotides

<400> 15
aatctgggggt aggcacaa 18

<210> 16
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR oligonucleotides

<400> 16
agtgtgtgtc cccaagg 17

<210> 17
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR oligonucleotides

<400> 17
cacagctgcc cgcccaggtg gcat 24

<210> 18
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR oligonucleotides

<400> 18
gtcgccagtg ctccctt 17

<210> 19
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR oligonucleotides

<400> 19
atcggacgtg gacgtgcaga 20

<210> 20
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Partial sequence of pH707

<400> 20
Ile Glu Pro Gly Thr Leu Val Thr Val Ser Ser
1 5 10

<210> 21
<211> 46

<212> DNA
 <213> Artificial Sequence

 <220>
 <223> Partial sequence of pHC707

 <400> 21
 cacaggtatc caggcctggt accttagtca ccgtctcctc aggtaa 46

 <210> 22
 <211> 16
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Partial sequence of pHC707

 <400> 22
 cacaggtatc caggca 16

 <210> 23
 <211> 9
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Partial sequence of pHC707

 <400> 23
 Pro Gly Thr Leu Val Thr Val Ser Ser
 1 5

 <210> 24
 <211> 32
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Partial sequence of pHC707

 <400> 24
 cctggtacct tagtcaccgt ctcctcaggt aa 32

 <210> 25
 <211> 12
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Partial sequence of pLC871

 <400> 25
 Val Glu Gly Asp Ile Gly Thr Lys Leu Glu Ile Lys
 1 5 10

<210> 26
 <211> 52
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Partial sequence of pLC871

<400> 26
 tttgcaggtg ttgaaggaga ttcgggaca agttggaaa taaaacgtaa gt 52

<210> 27
 <211> 4
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Partial sequence of pLC671

<400> 27
 Val Glu Gly Asp
 1

<210> 28
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Partial sequence of pLC671

<400> 28
 tttgcaggtg ttgaaggaga t 21

<210> 29
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Partial sequence of pLC671

<400> 29
 Ile Gly Thr Lys Leu Glu Ile Lys
 1 5

<210> 30
 <211> 31
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Partial sequence of pLC671

<400> 30
 atcgggacaa agttggaaat aaaacgtaag t 31